

Understanding the Power of A Real Time Data Exchange for the Modern World

Your single source of truth



Digital Trade Digital Documents Digital Platforms

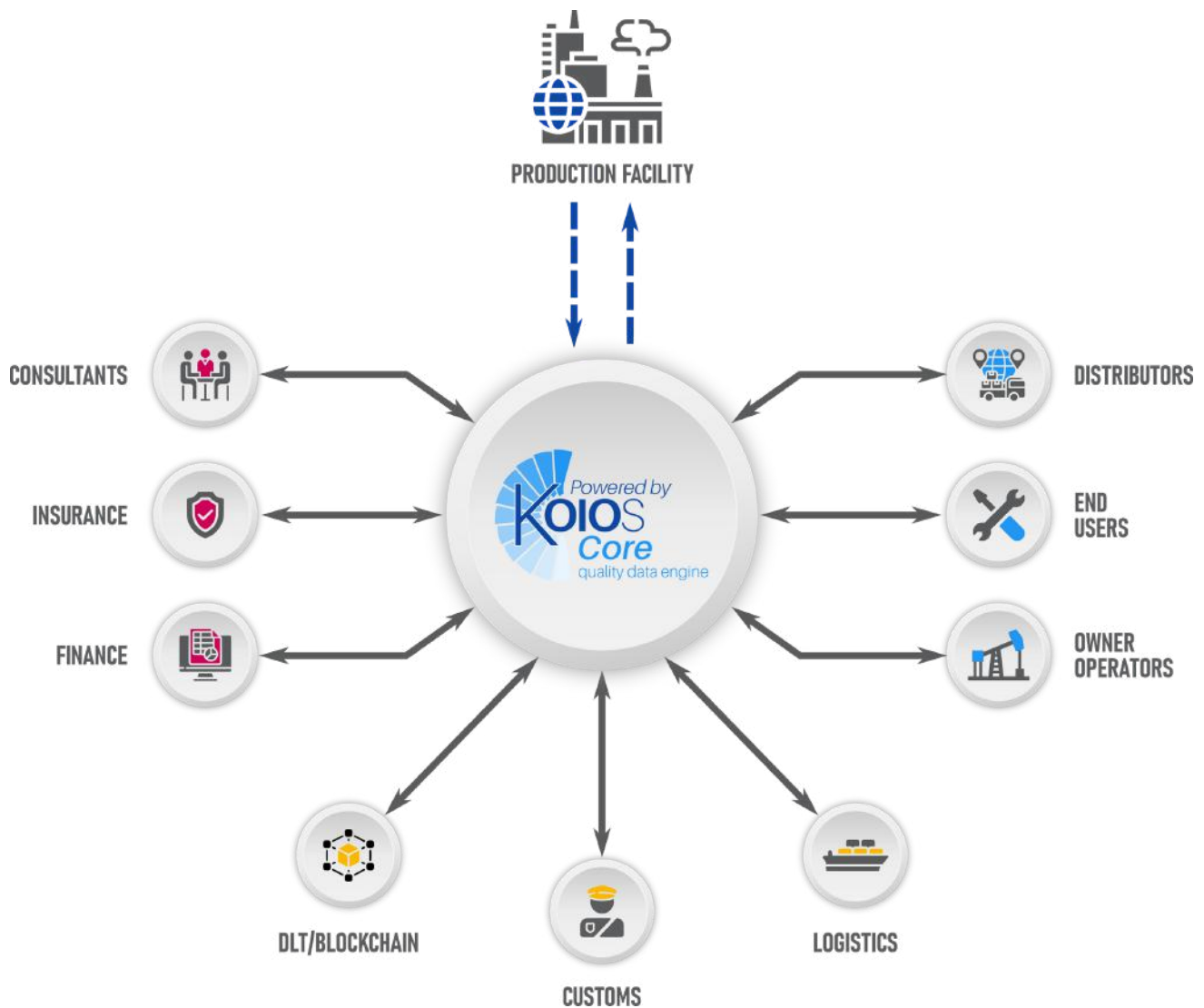
WHITE PAPER

Are you ready?



Table of Contents

4. Table of Exchange Data Users
5. Introduction to the KOIOS Data Exchange
7. Benefits of the KOIOS Data Exchange
8. Digital Trade
9. Global Digital Trade Supply Chain Platforms
10. Brand Protection
11. GS1, GDSN and Bar Codes
12. Your Webstores and Apps
13. International Standards
14. Conclusion



The modern digital economy puts additional demands on the data requirements across your global supply and trade ecosystems. As a producer and manufacturer the parties requiring your data is growing rapidly. This figure shows some of these parties.



The KOIOS Data Exchange

KOIOS offers a digital exchange for the global trade and supply ecosystems, allowing all parties access to a single source of truth about their products. The data in our cloud based data dictionary (thesaurus) is built from the ground up using international standards and created in 'machine readable' form.

As regulation and compliance are more and more pertinent, including global regulations such as Basel 3.1, and as technology adoption accelerates, manufacturers, distributors, end users, financial, insurance, freight and Customs entities need Quality data about the Products that they are handling to remain compliant. As we enter the rapid digitisation of the industrial world (Industrie 4.0) and the world of trade goes digital, there is a massive demand for quality data that people can rely on to make the decisions that power every aspect of their business, while remaining compliant.

Benefits of the KOIOS Data Exchange



Improved data sharing

The platform enables manufacturers of industrial products to share data with suppliers, customers, and other stakeholders in a secure and controlled manner. This can lead to improved collaboration and communication, as well as more efficient workflows.



Better supply chain visibility

By using KOIOS Data Exchange, manufacturers of industrial products can gain real-time visibility into their supply chain, enabling them to better manage inventory, anticipate demand, and improve overall supply chain performance.



Enhanced data analytics

KOIOS Data Exchange offers powerful data analytics capabilities, allowing manufacturers of industrial products to extract insights from their data and make more informed decisions. This can help to optimize manufacturing processes, improve product quality, and reduce costs.



Enhanced Product Development

By having access to data from end users of their products, manufacturers can gain insights into how their products are being used and identify areas for improvement. This data can be used to inform product development and innovation, resulting in better products that meet the needs of end users more effectively.

Benefits of the KOIOS Exchange



Better Demand Planning

By having access to data on how their products are being used, manufacturers can better forecast demand and plan production accordingly. This can help to reduce inventory costs and avoid stockouts.



Increased Innovation

The platform can foster innovation by providing a platform for manufacturers to exchange ideas and collaborate on new projects. By working together, manufacturers can leverage each other's expertise and resources to create new products and services that meet customer needs.



Faster Time-to-Market

The platform can help manufacturers speed up their time-to-market by providing access to data and insights from other businesses. Manufacturers can use this information to make more informed decisions and develop products faster.



Gain Competitive Advantage

By leveraging data from the KOIOS Data Exchange, manufacturers can gain a competitive advantage. This can include identifying market trends, understanding customer needs, and improving product offerings in response to changing market conditions.

Digital Trade



Renaissance of Global Trade with Digital Platforms and Documents

With the passage of new legislation globally, and a shift towards digitalisation, there are a new generation of digital trade platforms with multiple new parties pre-integrated who need access to your product data in real time. KOIOS is pre-integrated with many of these and it is easy to add others as they become relevant.



Access to New Markets

The platform can help manufacturers of bearings to identify new international markets for their products. By using the platform, manufacturers can gain insights into global demand for their products and connect with potential customers and partners from around the world.



Reduced Risk of Fraud

Digital trade documents can help to reduce the risk of fraud as they can be verified in real-time using digital signatures and encryption. This can help to prevent fraudulent activities such as document forgery, counterfeiting, and identity theft.



Increased Transparency using HS Codes

Digital trade documents can provide increased transparency throughout the supply chain by providing real-time access to information such as shipment status, customs clearance, and payment status. This can help to improve communication and collaboration between trading partners and reduce the risk of disputes.



Better Compliance including Basel 3.1, and GS1

Digital trade documents can help manufacturers, financial institutions, and other part to comply with regulatory requirements by providing real-time visibility and tracking of trade transactions.



Integrations with multiple Global Digital Supply Platforms, giving transparency across the supply chain, and integrations with multiple new players in the market

Brand Protection



Authenticity verification

By sharing unique identification codes for their products, manufacturers can quickly verify the authenticity of their products in the market. This allows them to spot and investigate any products that have the same identification code but were not manufactured by them.



Traceability

The data exchange allows manufacturers to track the movement of their products through the supply chain. By monitoring the movement of their products, manufacturers can quickly identify any instances where their products were diverted or counterfeit bearings were substituted.



Comparative analysis

The data exchange provides a comprehensive database of product specifications and manufacturing information. Manufacturers can use this information to compare the quality and performance of their products to those of counterfeit bearings. Any discrepancies in the specifications or manufacturing processes can be used to identify counterfeit products.



Better Compliance

Digital trade documents can help manufacturers to comply with regulatory requirements by providing real-time visibility and tracking of trade transactions. This can help to ensure that all necessary documentation is in place, reducing the risk of penalties and fines for non-compliance.

GS1 and Bar Codes



Verified by GS1 and GDSN

The KOIOS platform helps manufacturers streamline their supply chain operations by improving the accuracy of their bar code data. We work with our clients to manage the GDSN (Global Data Synchronisation Network) and populate the GS1 data.



GS1 and the United Nations Sustainability Goals

KOIOS is working with manufacturers to map the United Nation's sustainability goals with the GS1 bar code data to keep you compliant with the raft of new ESG and other legislation.



UAN / GTIN / UPC

The platform helps manufacturers get on top of their UAN, GTIN and UPC Codes to ensure that their cargoes experience as little friction as possible when going through Customs borders. Along with modern digital DLT and other trade networks, the combination of these data sets in a form that is interoperable with other systems will be transformational.



Regulatory Compliance

Master data is essential for ensuring regulatory compliance, particularly in industries such as aerospace, automotive, and medical devices. Accurate and consistent master data can help to ensure that products meet all necessary regulatory requirements, reducing the risk of penalties and fines for non-compliance.

Your Web Stores and Apps



Consistent , Quality Data for your Webstores

The KOIOS platform helps manufacturers streamline their supply chain operations by improving the accuracy of their bar code data. We manage the GDSN (Global Data Synchronisation Network) and populate the GS1 data for you.



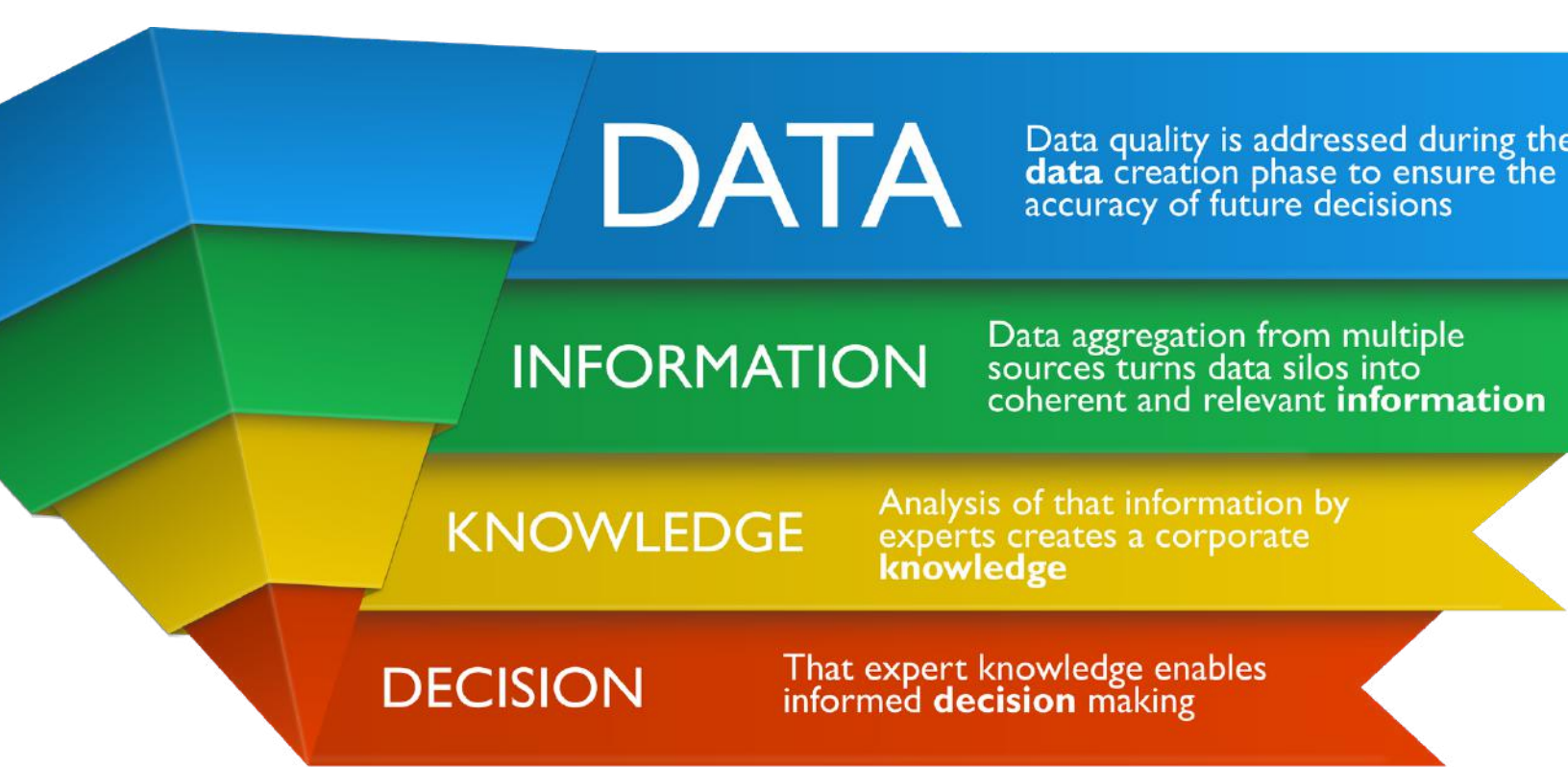
High Quality data to improve Web Search Results

KOIOS has mapped the United Nation's sustainability goals with the GS1 bar code data to keep you compliant with the raft of new ESG and other legislation.



App Enhancement

The platform helps manufacturers get on top of their UAN, GTIN and UPC Codes to ensure that their cargoes experience as little friction as possible when going through Customs borders. Along with modern digital DLT and other trade networks , the combination of these data sets in a form that is interoperable with other systems will be transformational.



International Standards

The KOIOS platform is built on ISO Standards. Data Quality and digital data exchange is ensured by using the ISO 8000 data quality architecture, and the foundations are built on the concept dictionary (thesaurus) based on ISO 29002. Bearing vocabulary in the dictionary includes ISO 5593, ISO 6811, and ISO 24393 and specifications are in line with ISO 21107 and ISO 23768.

We are constantly developing the dictionary with new and different standards as they become important for our clients and the markets that we serve.



Conclusion

KOIOS is unique in its approach in creating and managing quality data for the global supply and trade ecosystems. Our Quality Data Exchange enables us to create detailed specifications for any product and in any sector and make that data available securely and in real time to the parties that need it.

Our 'single source of truth' is created from international standards and other authoritative sources - encompassing Data Quality and Data Transmission standards - in a secure environment, allowing our clients to remain compliant and reap the benefits of the data.

As the world goes digital and new platforms, demands, legislation, and non-governmental initiatives become more mainstream, the demands on organisations for quality data has never been higher. KOIOS are unique in being able to help you navigate this new dimension.